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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,065 04/09/2004		Richard S. Norek	NOR.US.6	3064
24111 75	90 08/08/2005		EXAMINER	
MESMER & DELEAULT, PLLC 1 NEW HAMPSHIRE AVE.			JIMENEZ, MARC QUEMUEL	
SUITE 125		· ·	ART UNIT	PAPER NUMBER
PORTSMOUTI	H, NH 03801		3726	

DATE MAILED: 08/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applic	ation No.	Applicant(s)				
			9,065	NOREK, RICHARD S.				
	Office Action Summary	Exami	ner	Art Unit				
		Marc 、	Jimenez	3726				
Period f	The MAILING DATE of this commun or Reply	nication appears on	the cover sheet	with the correspondence address				
THE - External after - If th - If No - Failing	MAILING DATE OF THIS COMMUN ensions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this comressive period for reply specified above is less than thirty (30 period for reply is specified above, the maximum struct to reply within the set or extended period for reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no munication. 30) days, a reply within the latutory period will apply ar y will, by statute, cause the	o event, however, may statutory minimum of the d will expire SIX (6) Mo application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communic ABANDONED (35 U.S.C. § 133).	ation.			
Status								
1)	Responsive to communication(s) file	ed on .	•					
2a)		2b)⊠ This action i	s non-final.					
3)								
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	tion of Claims							
4)🖂	Claim(s) 1-15 is/are pending in the	application.						
	4a) Of the above claim(s) <u>1 and 2</u> is/are withdrawn from consideration.							
5)[Claim(s) is/are allowed.							
6)⊠	☐ Claim(s) <u>3-6,8,10,12-15</u> is/are rejected.							
7)🖂	Claim(s) 7,9 and 11 is/are objected	to.						
8)	Claim(s) are subject to restrict	ction and/or electio	n requirement.					
Applicat	ion Papers							
9)[The specification is objected to by th	e Examiner.						
·)⊠ The drawing(s) filed on <u>09 April 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
•	Applicant may not request that any obje		· · · ·					
	Replacement drawing sheet(s) including				21(d).			
11)	The oath or declaration is objected to	-	•	• • • •				
Priority	under 35 U.S.C. § 119							
	Acknowledgment is made of a claim All b) Some * c) None of:	for foreign priority	under 35 U.S.C.	§ 119(a)-(d) or (f).				
	1. Certified copies of the priority	documents have b	een received.					
	2. Certified copies of the priority	documents have b	een received in	Application No				
	3. Copies of the certified copies	of the priority docu	ıments have bee	n received in this National Stage				
	application from the Internation	onal Bureau (PCT F	Rule 17.2(a)).	•	•			
* (See the attached detailed Office action	on for a list of the co	ertified copies no	ot received.	,			
				•				
Attachmer	• •							
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (F	PTO-048)		y Summary (PTO-413) o(s)/Mail Date				
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or Properties) No(s)/Mail Date			Informal Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1 and 2, drawn to a two or three layer transition duct, classified in class
 138, subclass 137.
 - II. Claims 3-15, drawn to a method of making a multilayer transition duct, classified in class 29, subclass 890.14.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions of Groups I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process, such as one not requiring the steps of providing a plurality of pieces of tubular duct material of substantially the same diameter, changing the temperature of at least one of the pieces sufficient to change its diameter by thermal expansion to a degree that permits a cooler piece to fit inside a warmer piece, inserting the cooler piece inside the warmer piece to make multilayer tube material and hydroforming a multilayer transition duct body from the multilayer tube material, as required by the invention of Group II.

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3. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

4. During a telephone conversation with Applicant's attorney, **Mr. Phillip E. Decker** on Wednesday, April 13, 2005 a provisional election was made without traverse to prosecute the invention of Group II, claims 3-15. Affirmation of this election must be made by applicant in replying to this Office action. Claims 1 and 2 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Claim Objections

5. Claim 5 is objected to because of the following informalities: "an" should be - - a - - in line 5. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cudini (US 4,759,111) in view of Long (US 3,068,562).

Cudini teaches a method of making a multilayer transition duct body without longitudinal

welds comprising the steps of providing a plurality of pieces of tubular duct material 11,10 of substantially the same diameter, inserting a first piece 10 inside a second piece 11 to make multilayer tube material, and hydroforming a multilayer transition duct body from the multilayer tube material (col. 4, lines 11-17).

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Cudini teaches the invention cited with the exception of changing the temperature of at least one of the pieces sufficient to change its diameter by thermal expansion to a degree that permits a cooler piece to fit inside a warmer piece.

Long teaches heating an outer shell **8** to a high temperature to expand it so that the outer shell can be telescoped over an inner shell **2** (col. 2, lines 35-40) and then hydraulically expanding (col. 2, lines 52-70).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided the invention of Cudini with the step of changing the temperature of at least one of the pieces sufficient to change its diameter by thermal expansion to a degree that permits a cooler piece to fit inside a warmer piece, in light of the teachings of Long, in order to provide an even more secure attachment between the inner and outer pieces.

8. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cudini in view of Long as applied to claim 3 above, and further in view of Austin et al. (US 5,129,253).

Cudini/Long teach the invention cited with the exception of coating one of the mating surfaces with anti-fretting coating.

Austin et al. teach coating with an anti-fretting coating 13.

Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the

invention, to have provided the invention of Cudini/Long with coating one of the mating surfaces with anti-fretting coating, in light of the teachings of Austin et al., in order to help reduce friction related stress.

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9. Claims 5, 6, 8, 10, 12, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schulz (US 5,649,439) in view of Komiya et al. (US 6,332,346).

Schulz teaches providing at least one bellows thruster 22,24 having a bellows structure, structural welding (col. 2, lines 19-20) a bellows thruster 22,24 to each open end of a duct body 20 such that the duct body 20 is capable of containing internal pressure, removably securing a pressurizing means 28 to at least one of the bellows 22 thrusters capable of pressurizing the inside of a duct body 20, and hydroforming the transition duct body 20 in a hydroforming (col. 4, lines 1-4) press 40,38 to a pressure less than the capacity of the hydroforming press 40,38.

Schulz teaches the invention cited with the exception of the bellows thruster being hemispherical.

Komiya et al. teach a bellows thruster 24 that can have various shapes (see figures 4 and 7a-c) including a hemispherical shape.

Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided the invention of Schulz with a hemispherical shape, in light of the teachings of Komiya et al., in order to provide a bellows structure that can be easily nested in the hydroforming press.

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Regarding claims 6 and 8, Komiya et al. teach that the bellows structure 4 is uniform around the axis of the hemispherical bellows structure. The bellows is also non-uniform around "the axis" of the hemispherical bellows thruster.

Regarding claim 10, in as much structure claimed, the bellows structure of Komiya et al. is considered to be adapted to supply more lateral force than without bellows.

Regarding claim 12, Schulz teaches a pair of dies 40,38.

Regarding claim 13, the dies of Schulz is "adapted to" form two transition duct bodies in back-to-back arrangement. Furthermore, official notice is taken that it was well known to a person of ordinary skill in the art, at the time of the invention, to have provided a back-to-back arrangement, in order to provide sections of different material properties.

10. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schulz in view of Komiya et al. as applied to claim 5 above, and further in view of Cudini.

Schulz/Komiya et al. teach the invention cited with the exception of the duct body being a multi-layer transition duct body.

Cudini teaches a multi-layer transition duct body 10,11.

Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided the invention of Schulz/Komiya et al. with a multi-layer transition duct body, in light of the teachings of Cudini, in order to provide a structurally stronger multi-layer duct body.

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11. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schulz in view of Komiya et al. as applied to claim 14 above, and further in view of Austin et al.

Schulz/Komiya et al. teach the invention cited with the exception of coating between an inner and outer layer of the multi-layer transition duct body.

Austin et al. teach coating with an anti-fretting coating 13.

Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided the invention of Schulz/Komiya et al. with coating between an inner and outer layer of the multi-layer transition duct body., in light of the teachings of Austin et al., in order to help reduce friction related stress.

Allowable Subject Matter

12. Claims 7, 9, and 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Contact Information

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc Jimenez whose telephone number (571) 272-4530. The examiner can normally be reached on Monday-Friday between 5:30 a.m.-2:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on (571) 272-4690. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MJ May 26, 2005